NOVEMBER/DECEMBER 2023

23PCS12 — OBJECT ORIENTED ANALYSIS AND DESIGN AND C++

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Object-Oriented Design?
2. What is Object Life Span?
3. Define: Cardinality.
4. Write the uses of Aggregation.
5. List out any four applications of OOP.
6. What are two ways of creating symbolic constants in Ct+?
7. Mention the uses of Manipulators.
8. Write the uses of this Pointer.
9. Difference between ifstream and ofstream in C++.
10. Write the syntax for defining an object of a template class.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the various kinds of Abstraction.

Or

(b) List the benefits of the Object model.

12. (a) Summarize the nature of a class.

Or

(b) Discuss the Interplay of classes and objects.

13. (a) Explain the basic concepts of Object-oriented Programming.

Or

(b) Discuss the Function overloading with a suitable example.

14. (a) Write a C++ Program to find a Factorial of a number.

Or

(b) Explain the Overloading Unary operator.

15. (a) What is Virtual function? Explain the need for Virtual function.

Or

(b) Explain the Exception handling mechanism.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the nature of an object.

17. Elaborate the importance of Proper classification.

18. Explain the various Control structures available in C++.

19. Discuss the Multi-level inheritance with a suitable example.

20. Explain the following:

(a) Opening and closing a file.

(b) Opening file using constructor.

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